

Title (en)  
HYBRID ROLLING MILL

Title (de)  
HYBRIDWALZWERK

Title (fr)  
LAMINOIR HYBRIDE

Publication  
**EP 3755477 A1 20201230 (EN)**

Application  
**EP 19735014 A 20190613**

Priority  
• US 201862684437 P 20180613  
• US 2019036958 W 20190613

Abstract (en)  
[origin: US2019381550A1] A hybrid rolling mill includes at least one work stand and a lubrication system. The at least one work stand includes an upper work roll and a lower work roll. The lubrication system includes a first lubricant applicator and a second lubricant applicator. The first lubricant applicator is configured to supply a first lubricant at an entry side of the work stand in a first rolling mode. The second lubricant applicator is configured to supply a second lubricant at the entry side of the work stand in a second rolling mode.

IPC 8 full level  
**B21B 45/02** (2006.01)

CPC (source: EP KR US)  
**B21B 27/10** (2013.01 - KR); **B21B 45/0242** (2013.01 - KR US); **B21B 45/0248** (2013.01 - US); **B21B 45/0251** (2013.01 - EP KR);  
**B21B 2203/18** (2013.01 - KR)

Citation (search report)  
See references of WO 2019241512A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2019381550 A1 20191219**; BR 112020017659 A2 20201222; CA 3091392 A1 20191219; CN 112292217 A 20210129;  
DE 212019000312 U1 20210210; EP 3755477 A1 20201230; KR 20200116508 A 20201012; WO 2019241512 A1 20191219

DOCDB simple family (application)  
**US 201916440056 A 20190613**; BR 112020017659 A 20190613; CA 3091392 A 20190613; CN 201980038878 A 20190613;  
DE 212019000312 U 20190613; EP 19735014 A 20190613; KR 20207025737 A 20190613; US 2019036958 W 20190613